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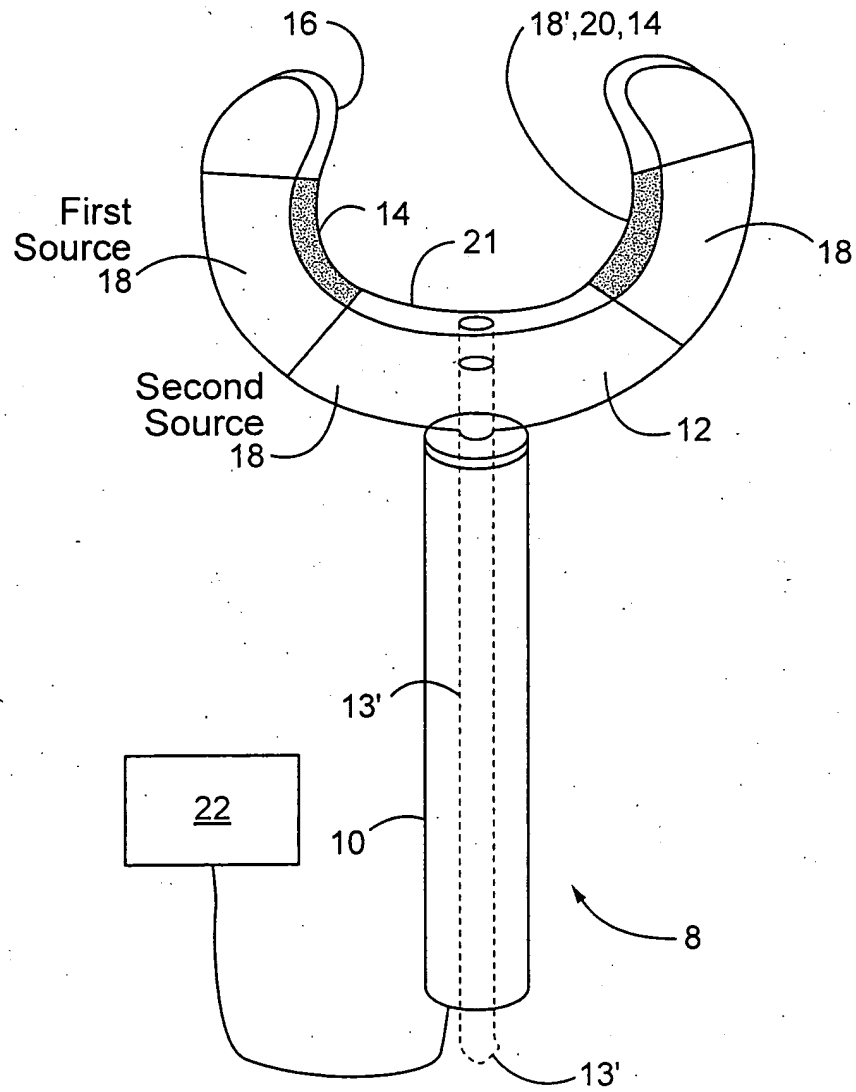
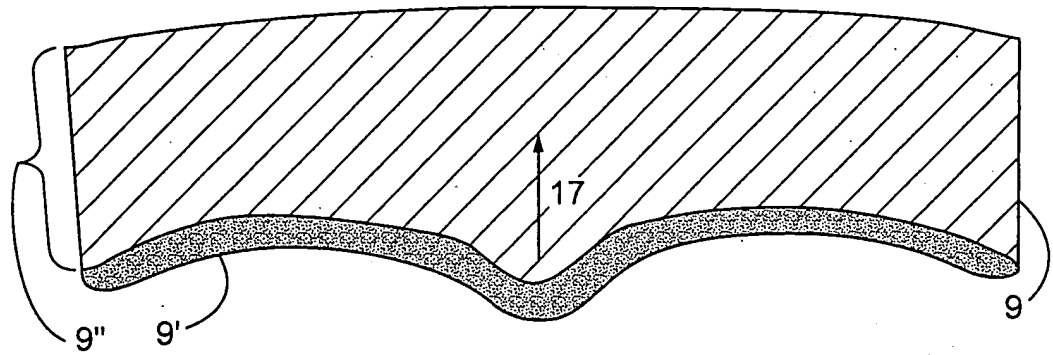


FIG. 1

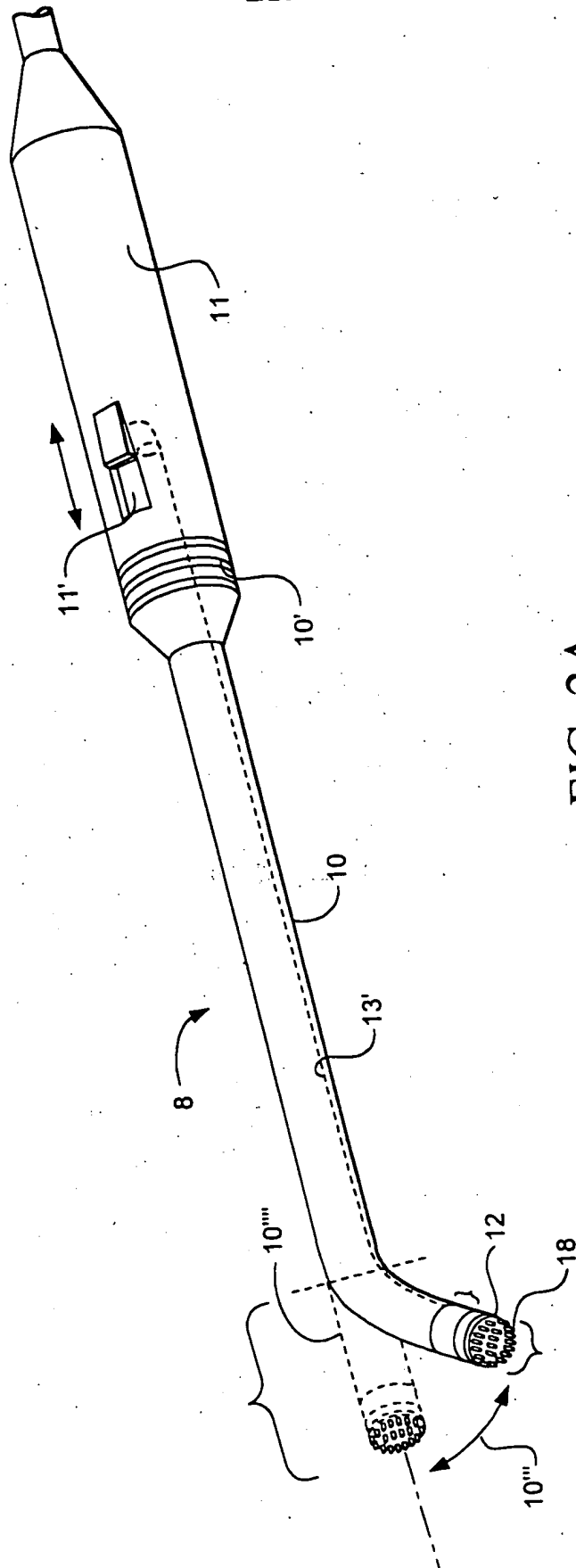


FIG. 2A

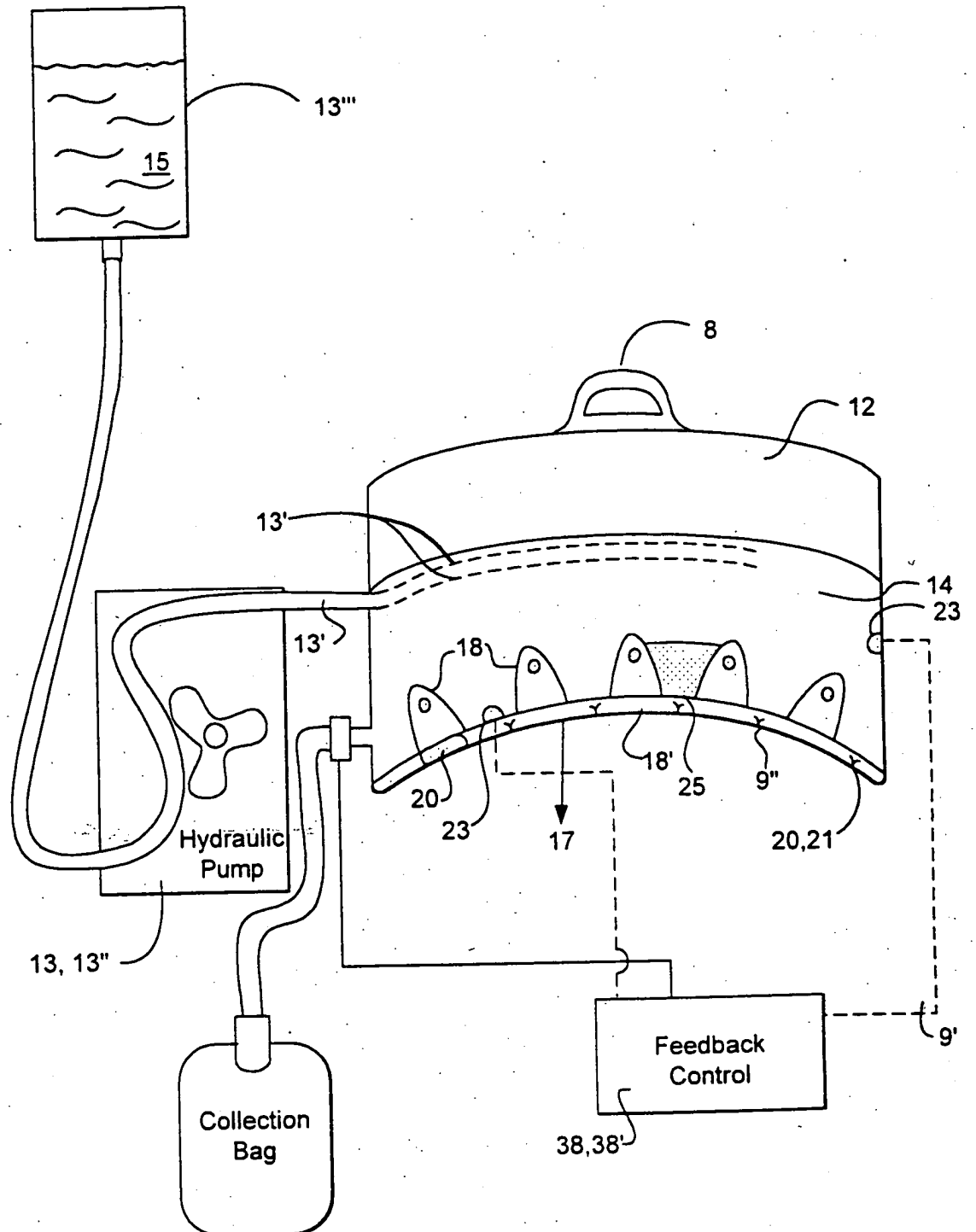


FIG. 2B

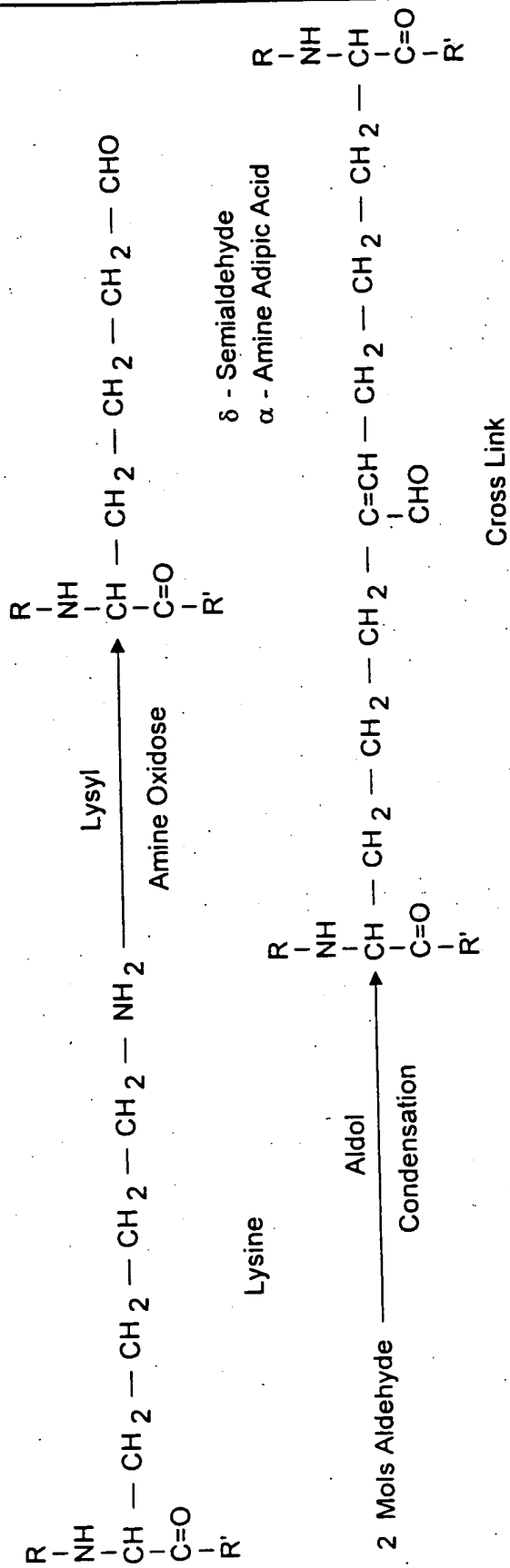
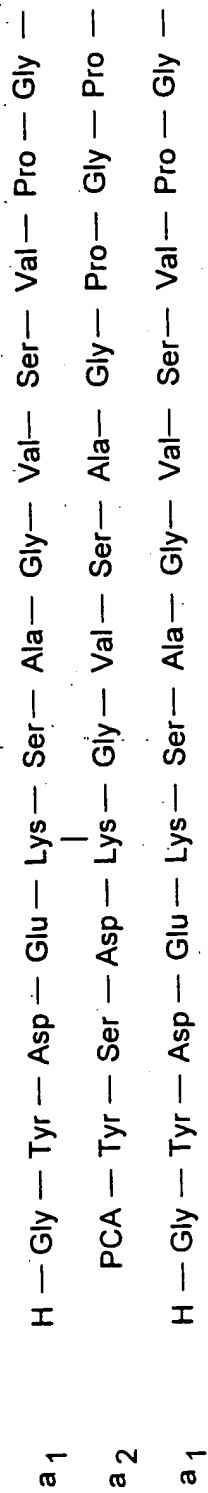
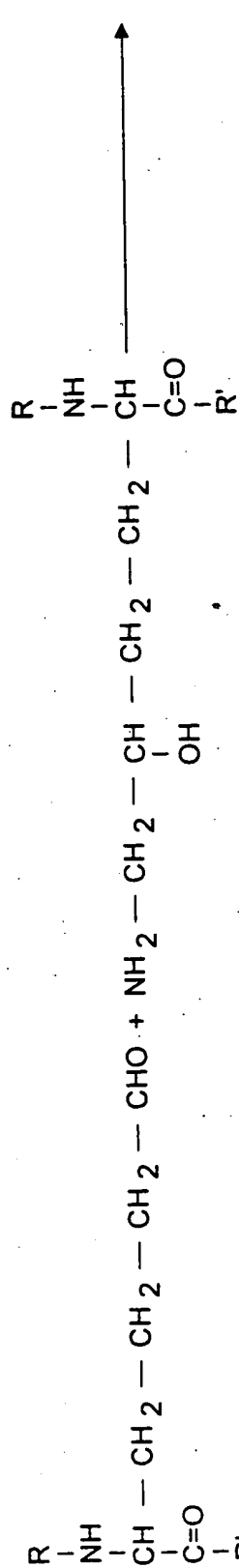
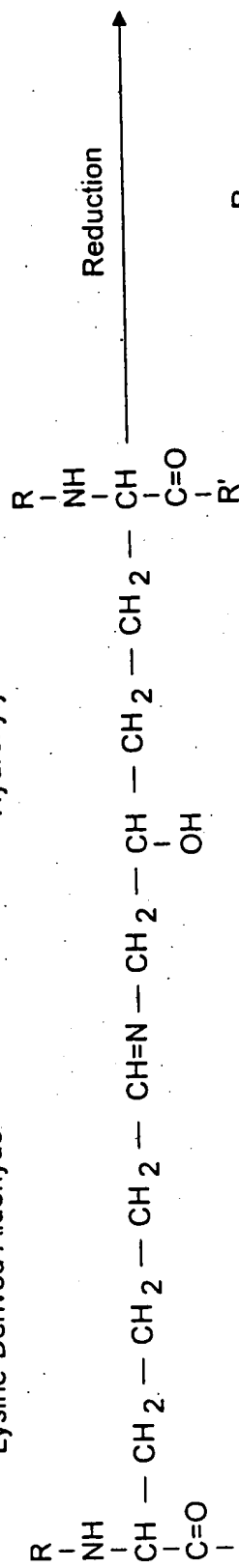


FIG. 3

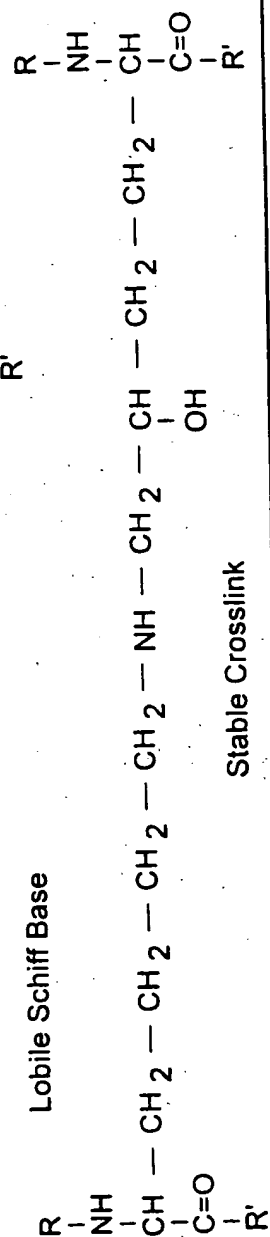


Hydroxylysine



Reduction

Loblie Schiff Base



Stable Crosslink

FIG. 4

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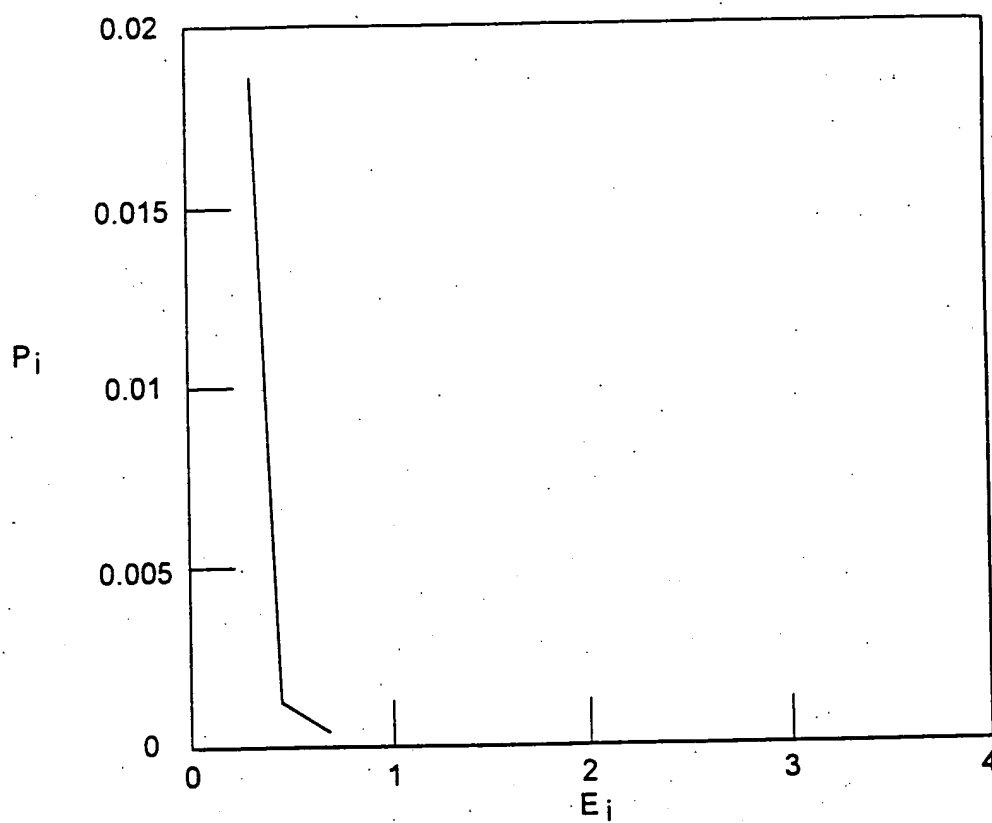


FIG. 5

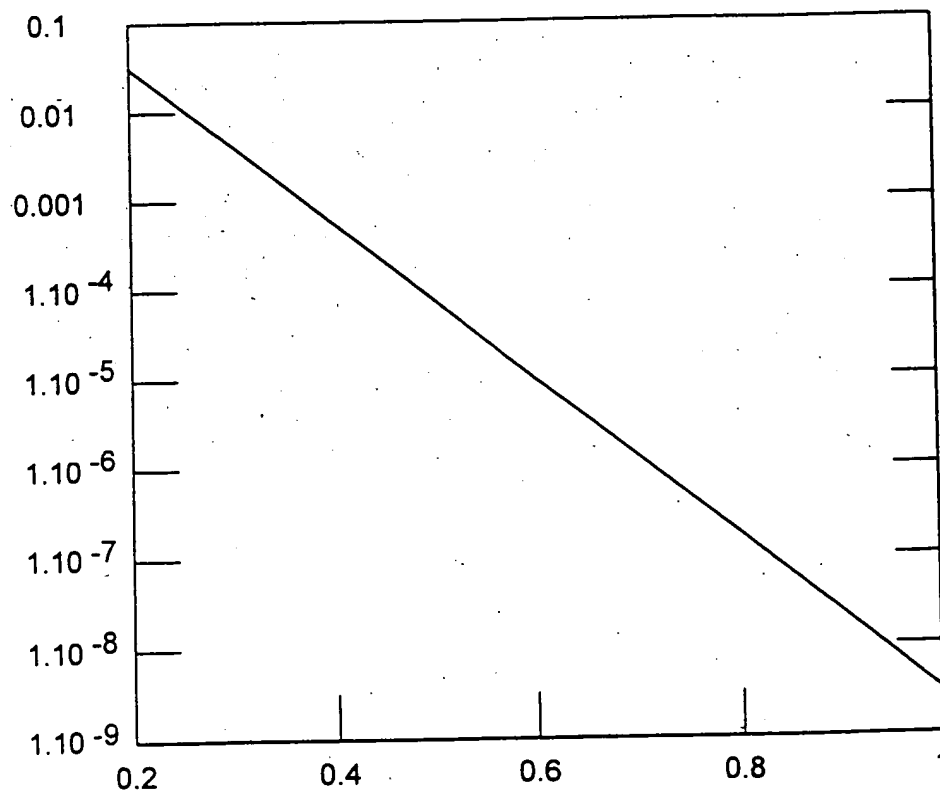


FIG. 6

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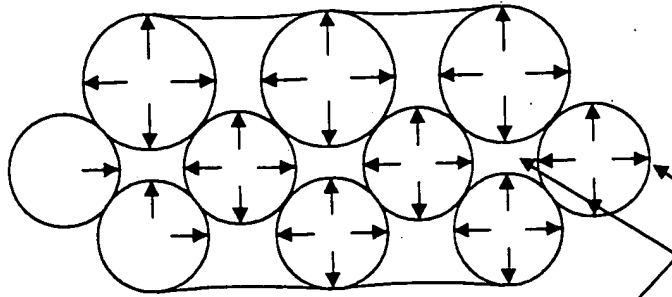


FIG. 7

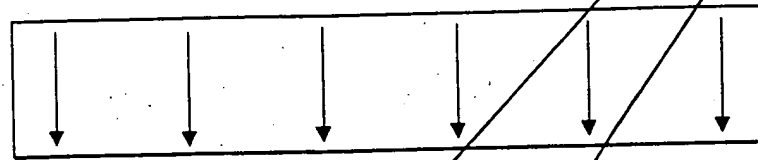


FIG. 8

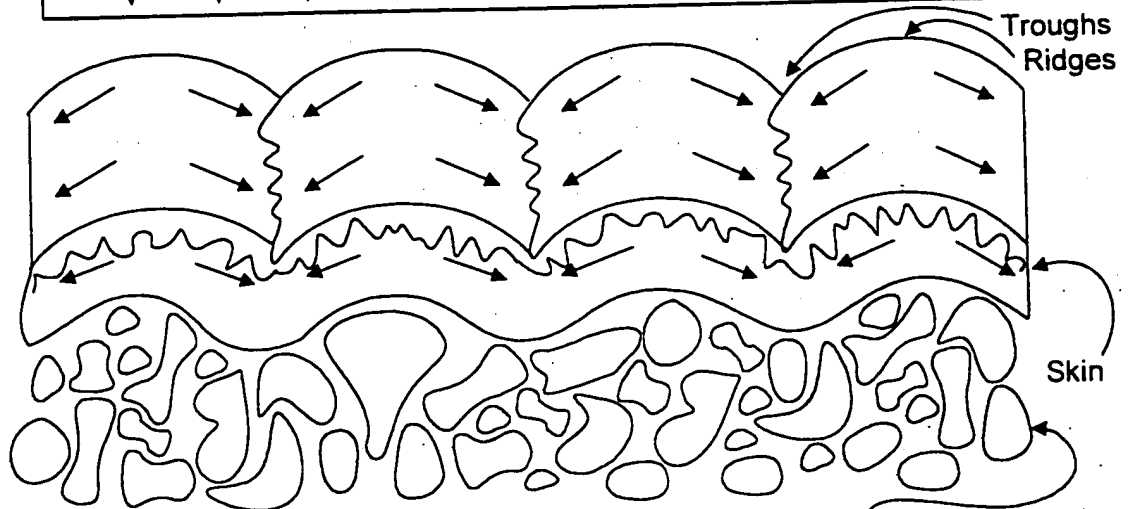
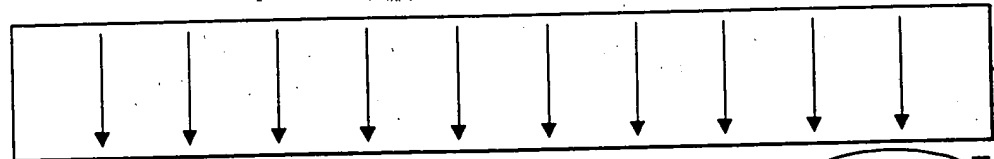


FIG. 9

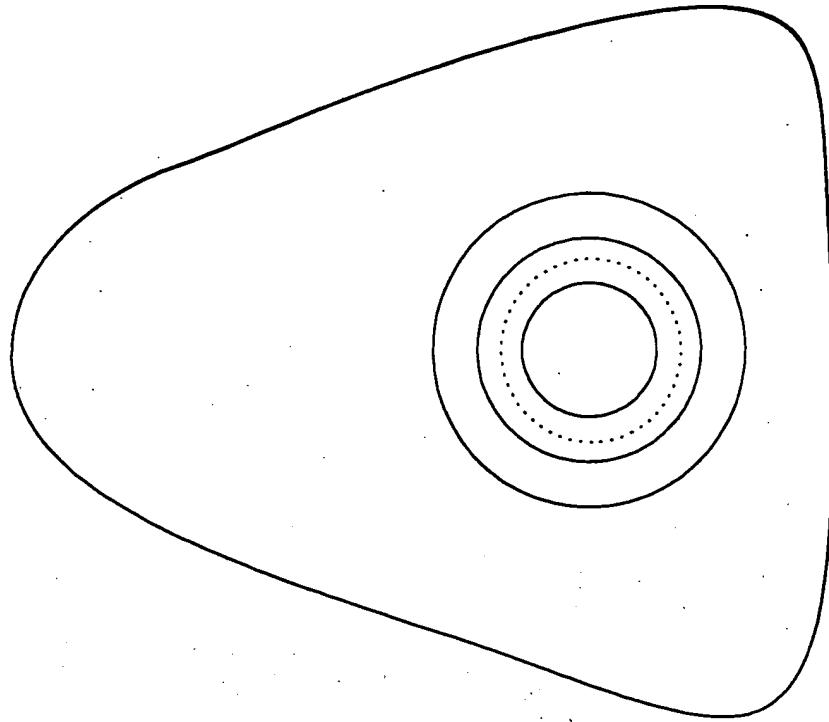


FIG. 10B

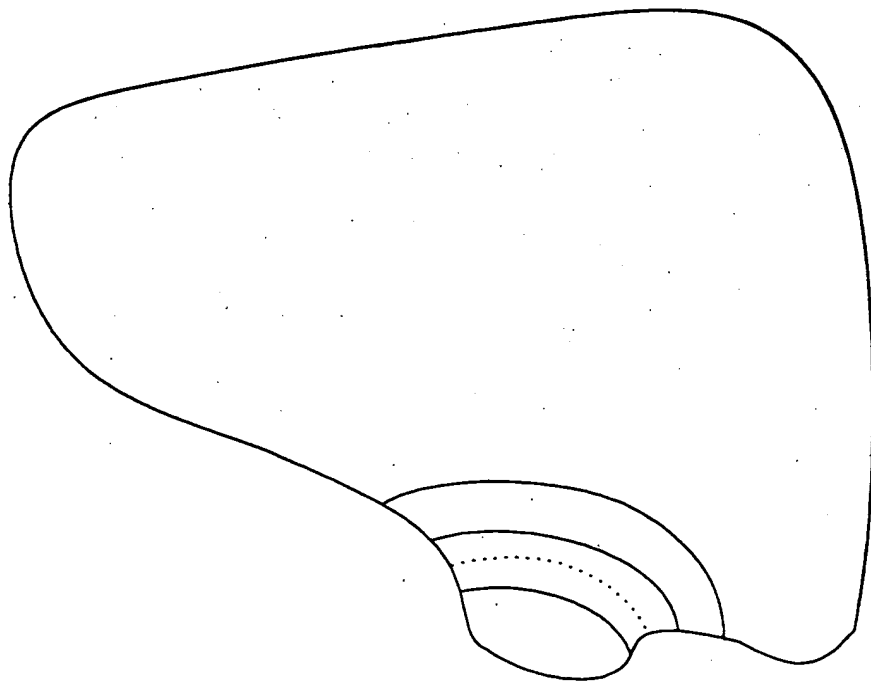


FIG. 10A

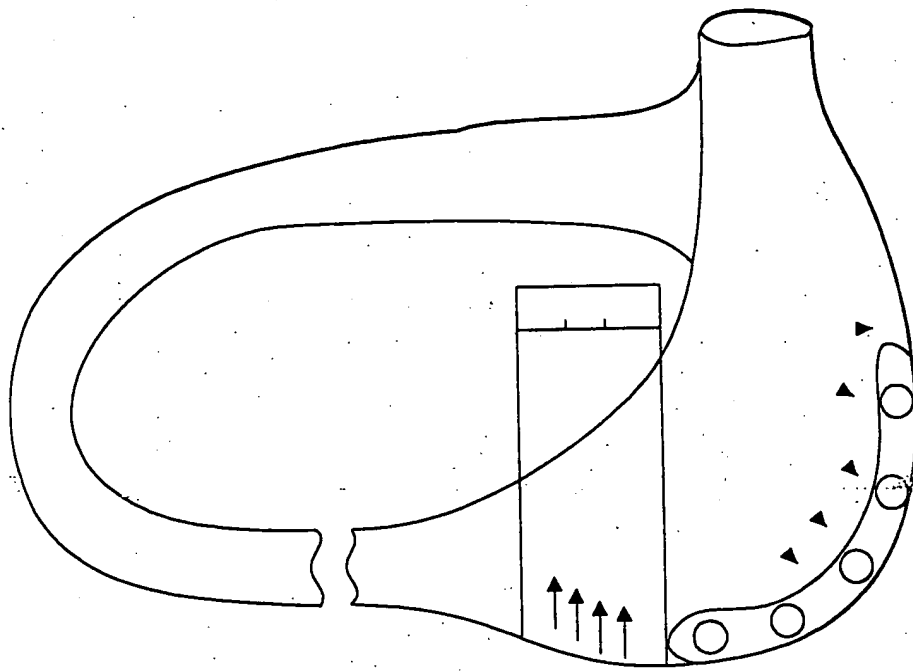


FIG. 10C

Fully Expanded

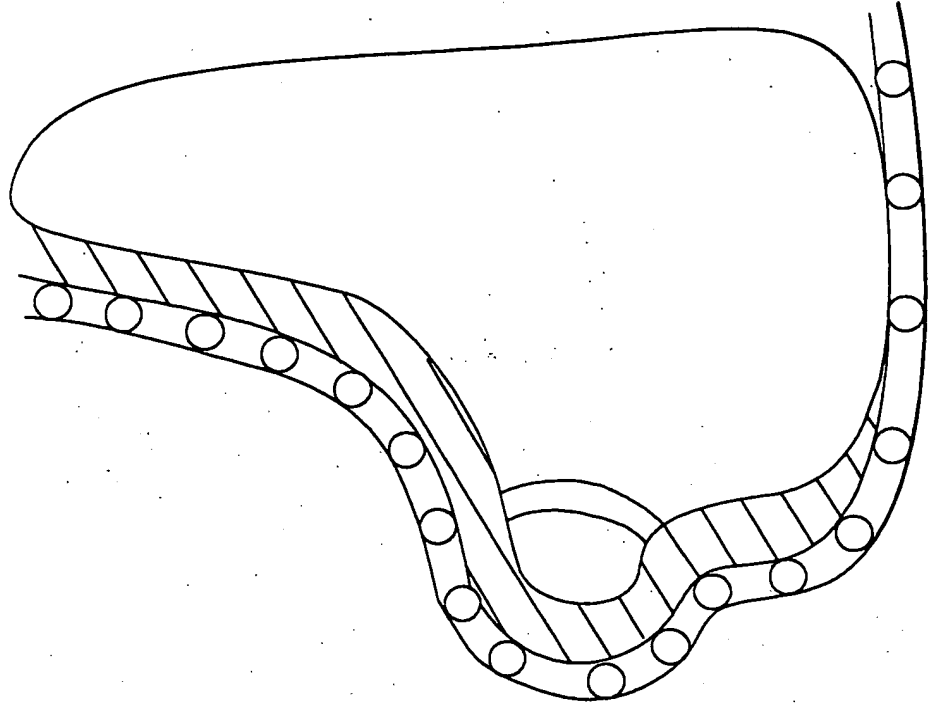


FIG. 10E

Partially Expanded

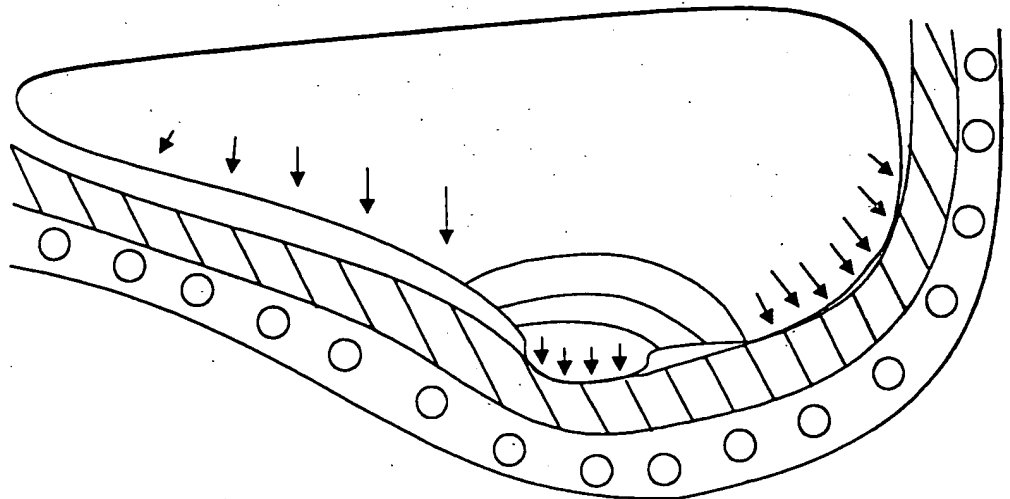


FIG. 10D

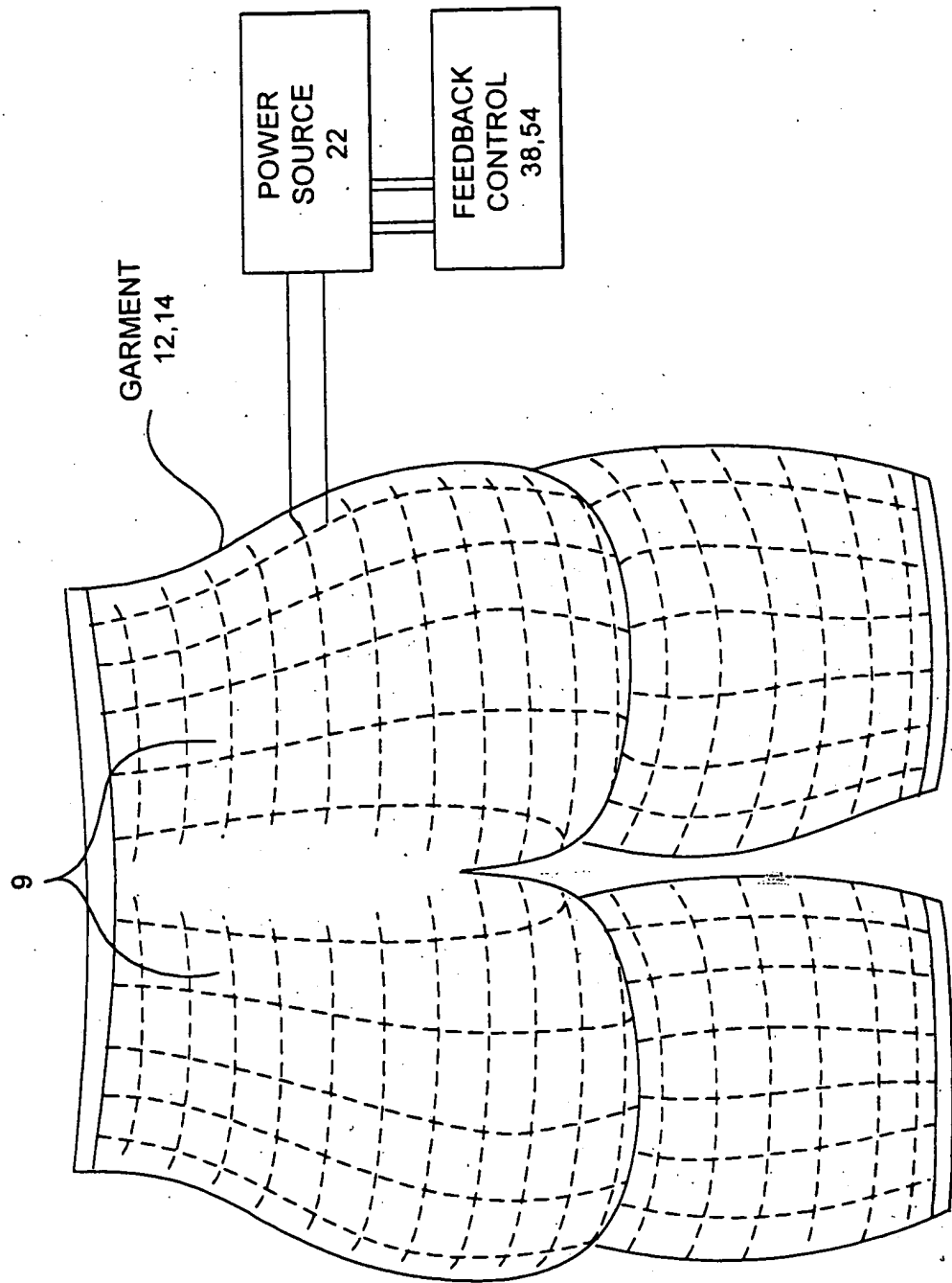


FIG. 11

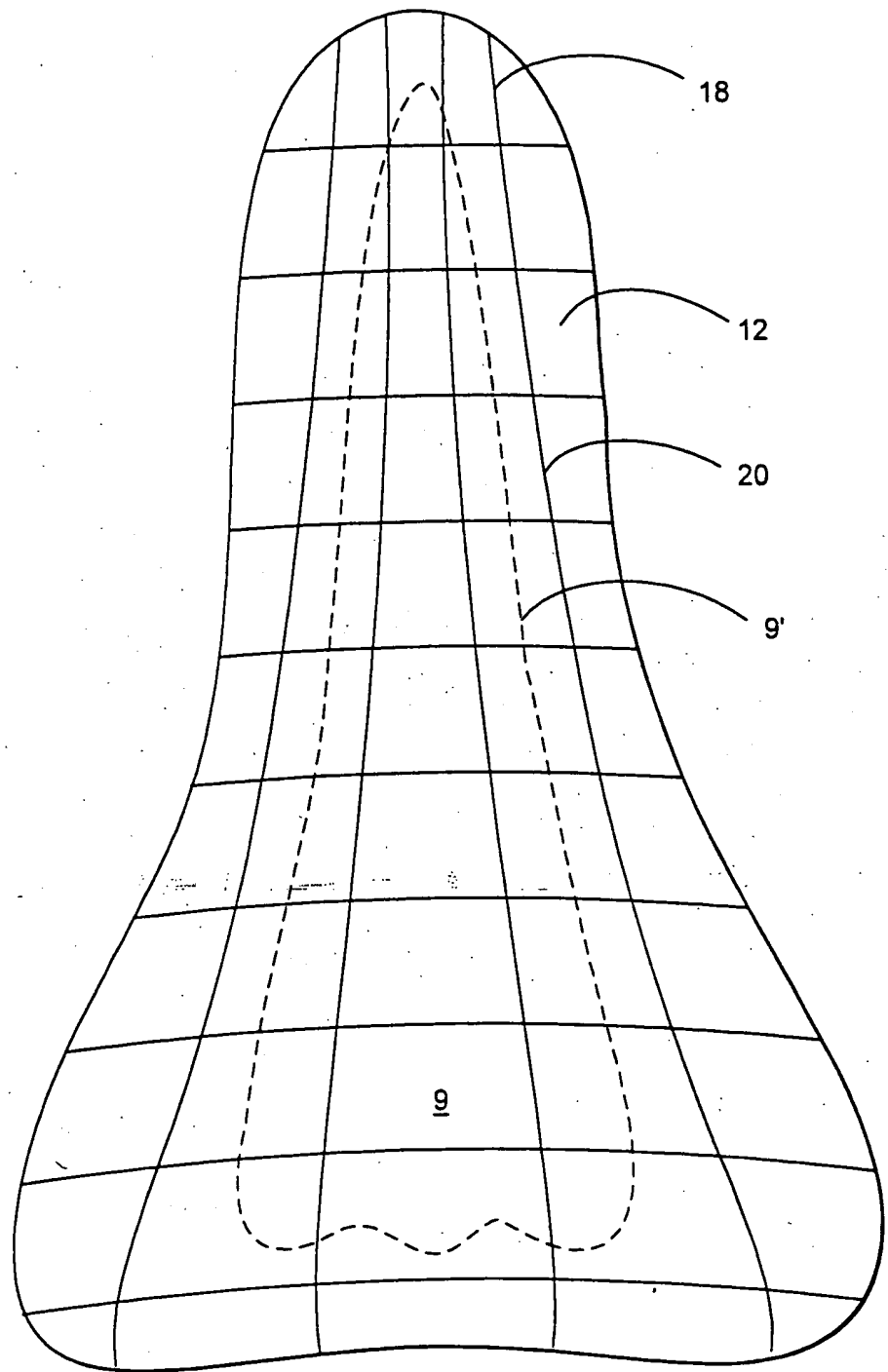


FIG. 12A

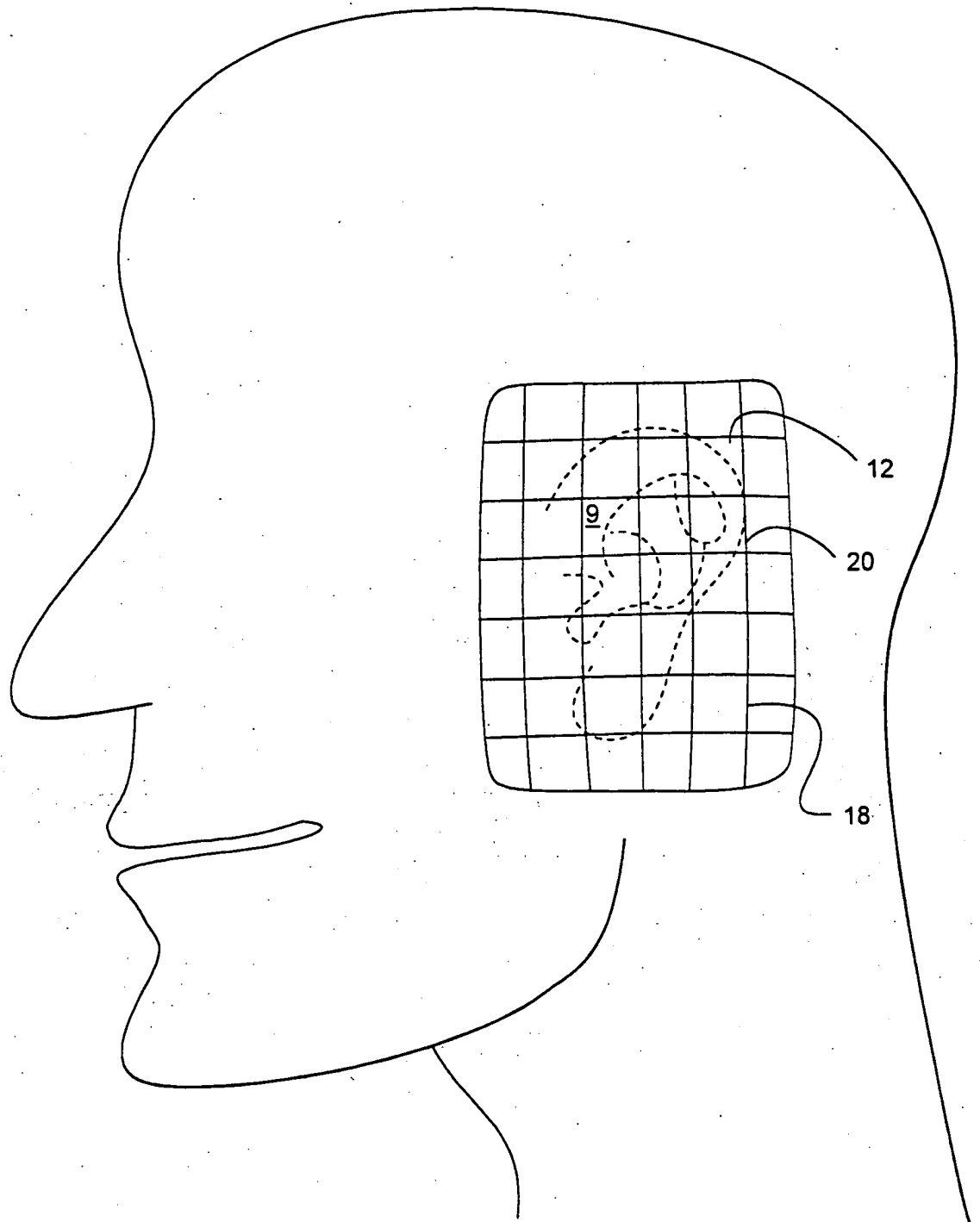


FIG. 12B

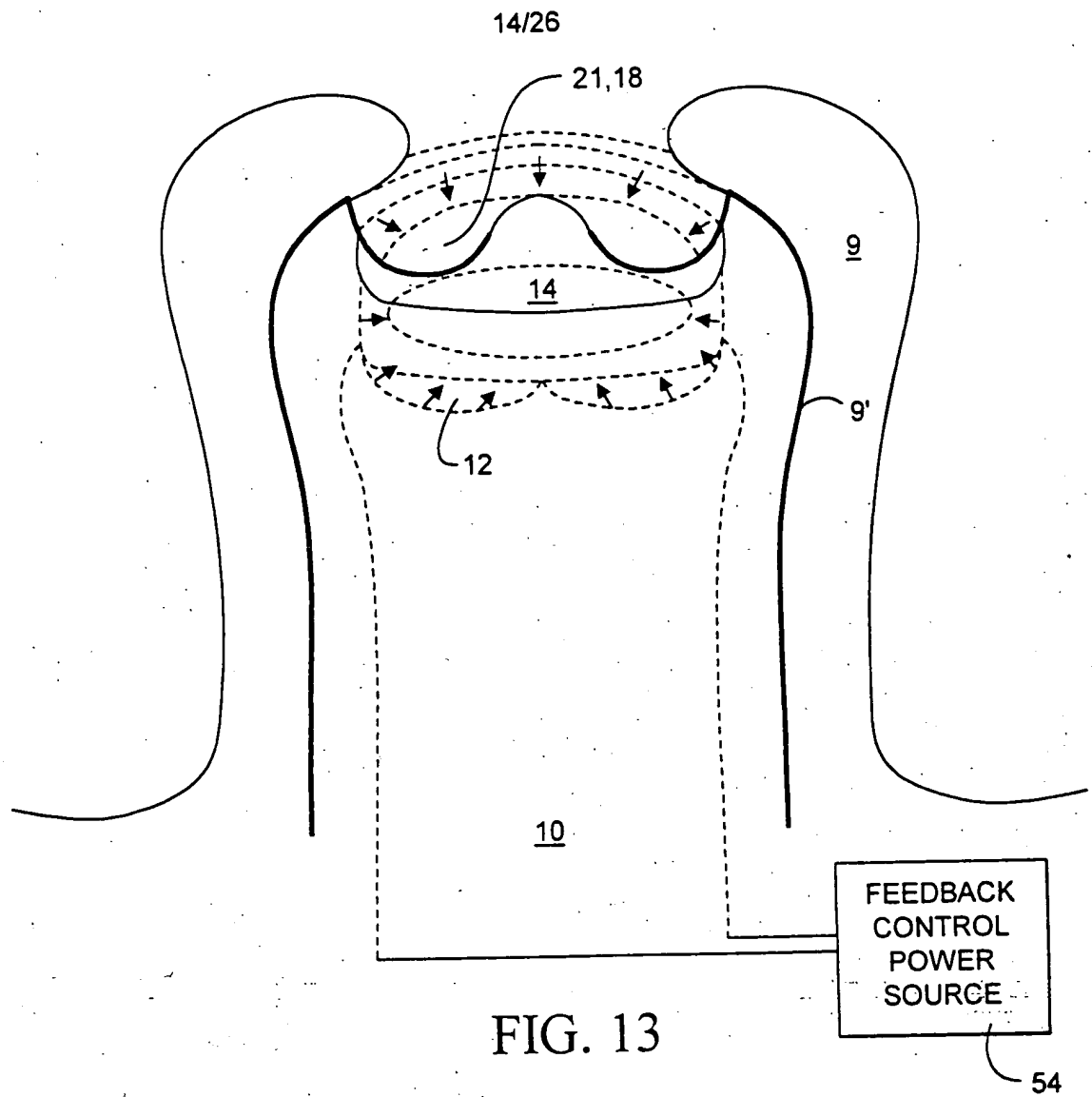


FIG. 13

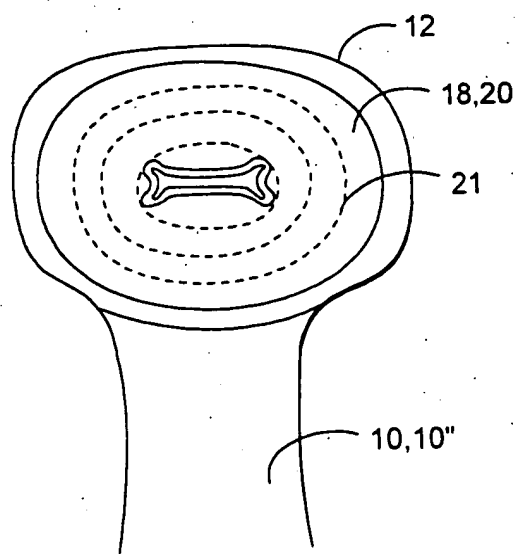


FIG. 14

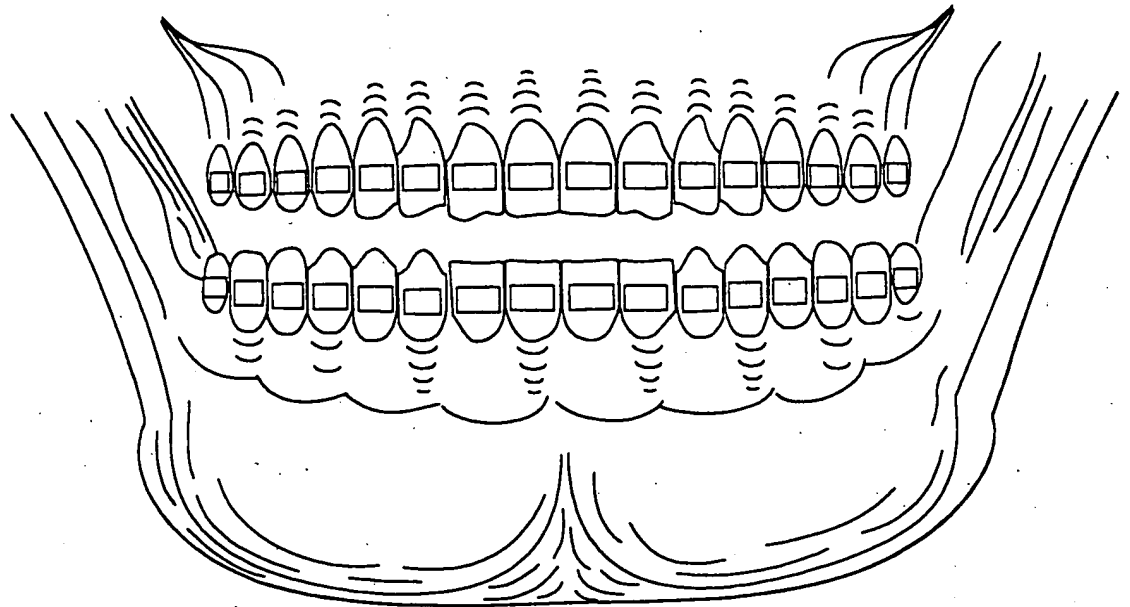


FIG. 15A

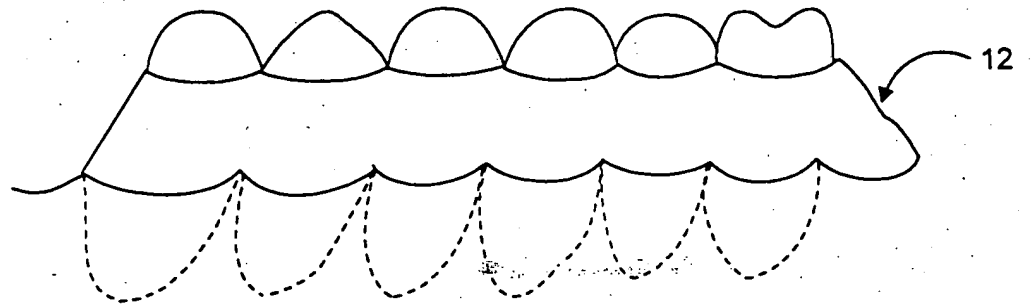


FIG. 15B

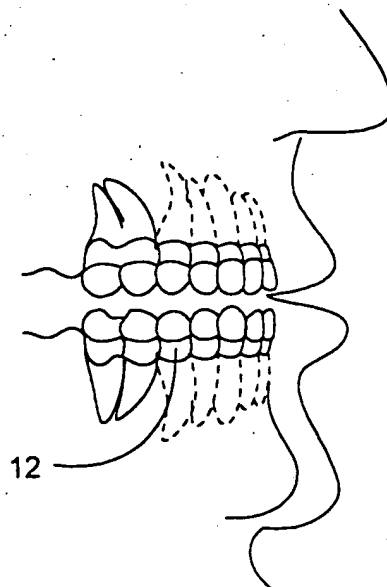


FIG. 15C

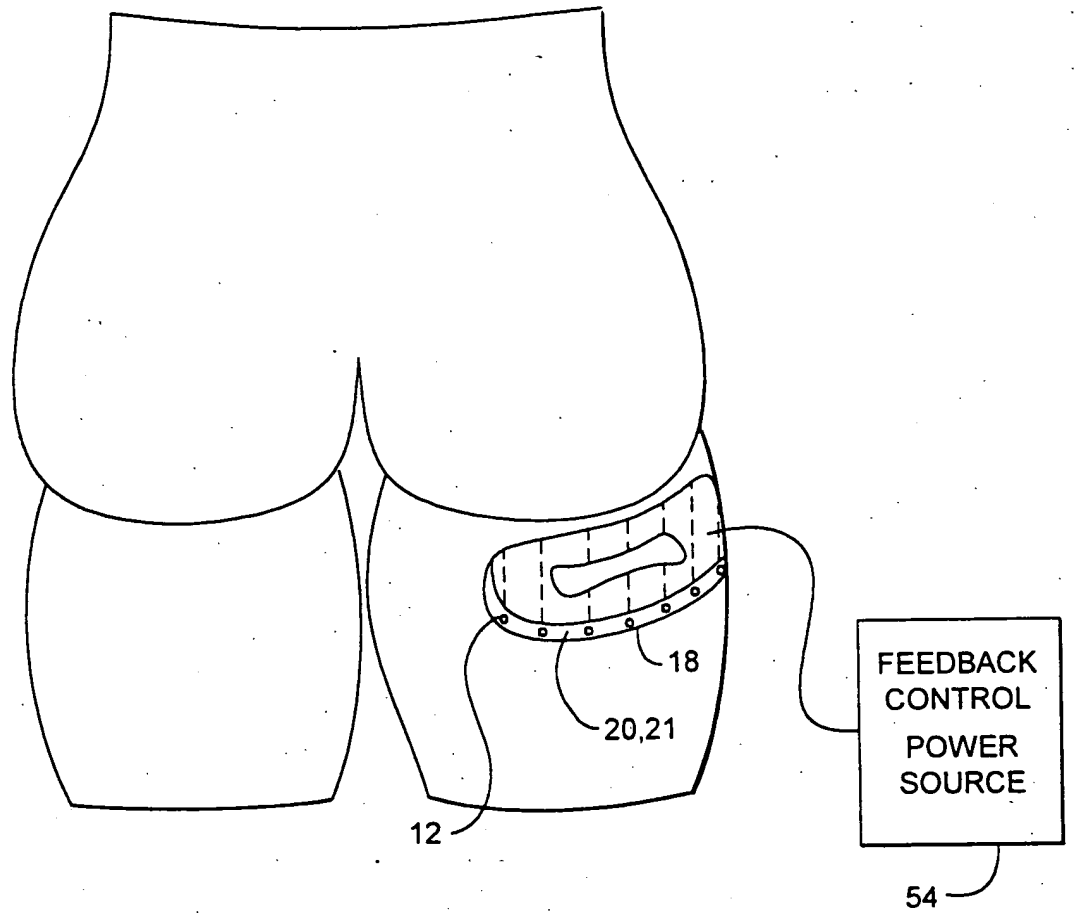


FIG. 16

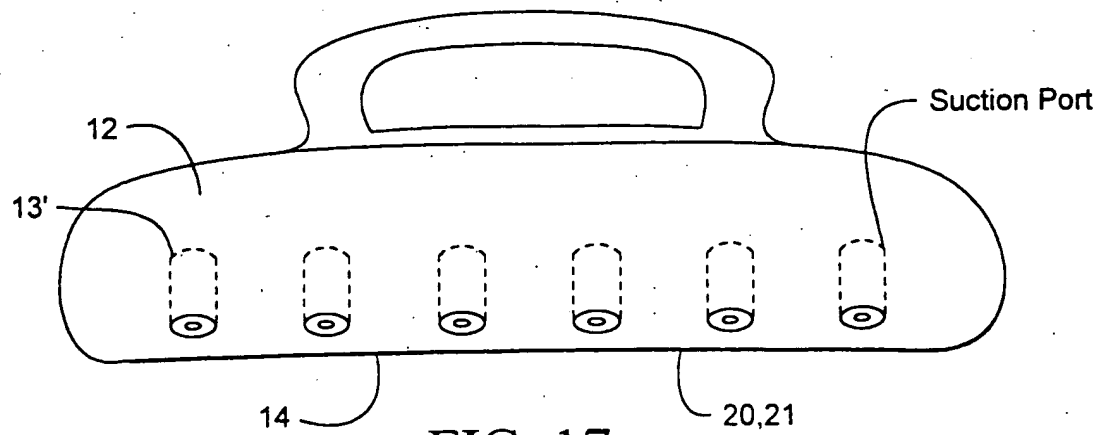


FIG. 17

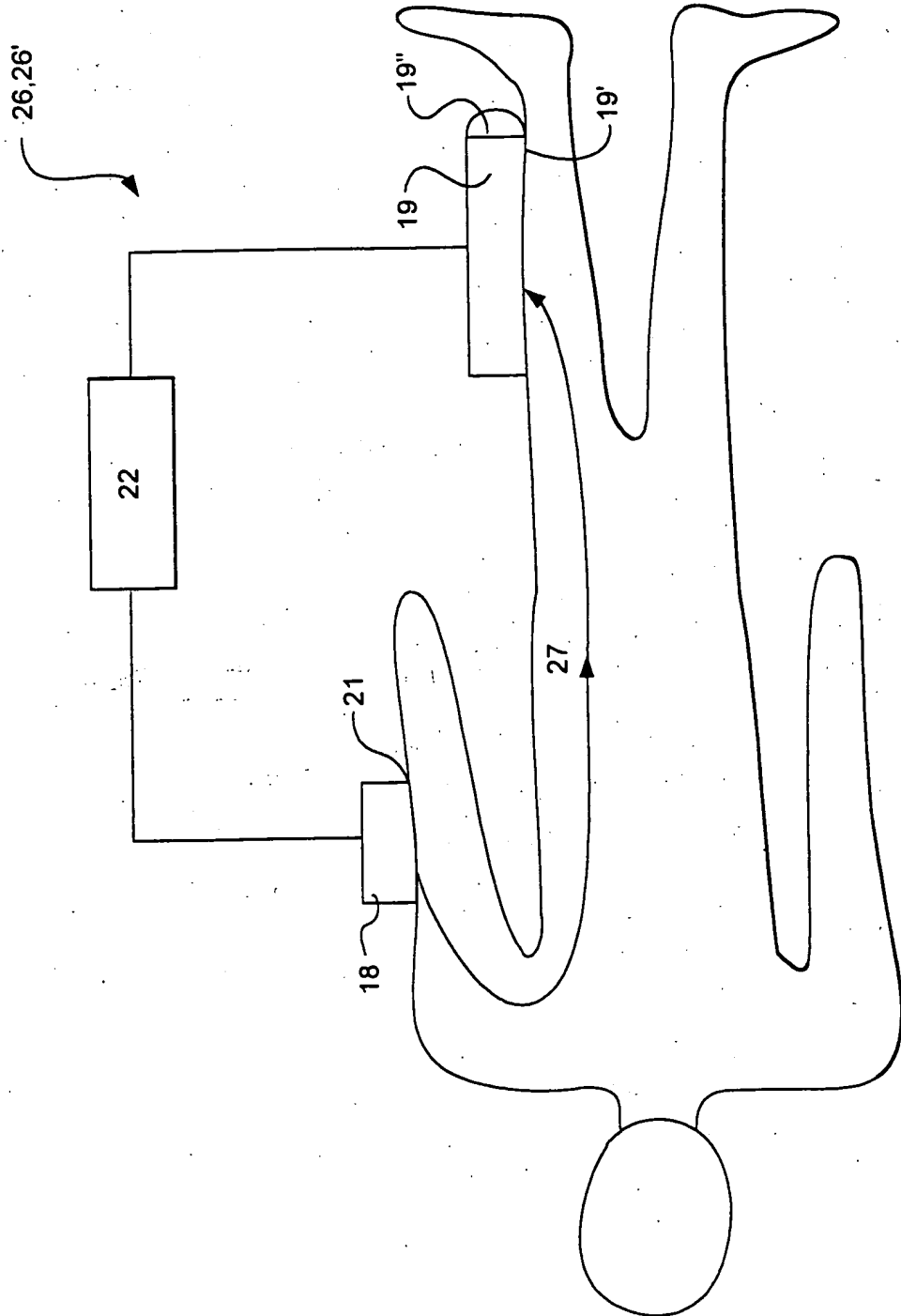


FIG. 18A

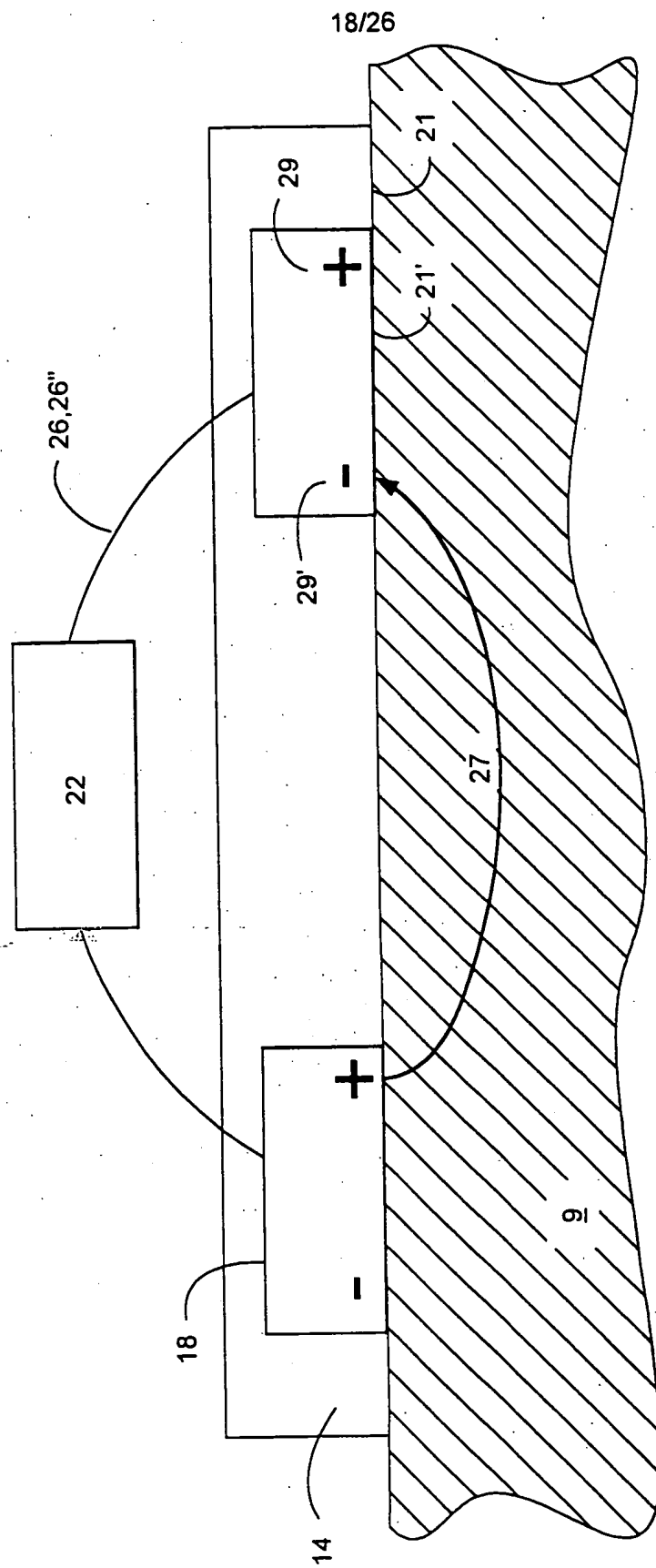


FIG. 18B

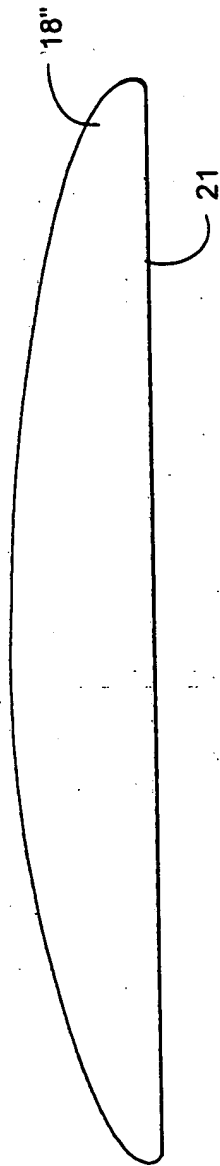


FIG. 19A



FIG. 19B

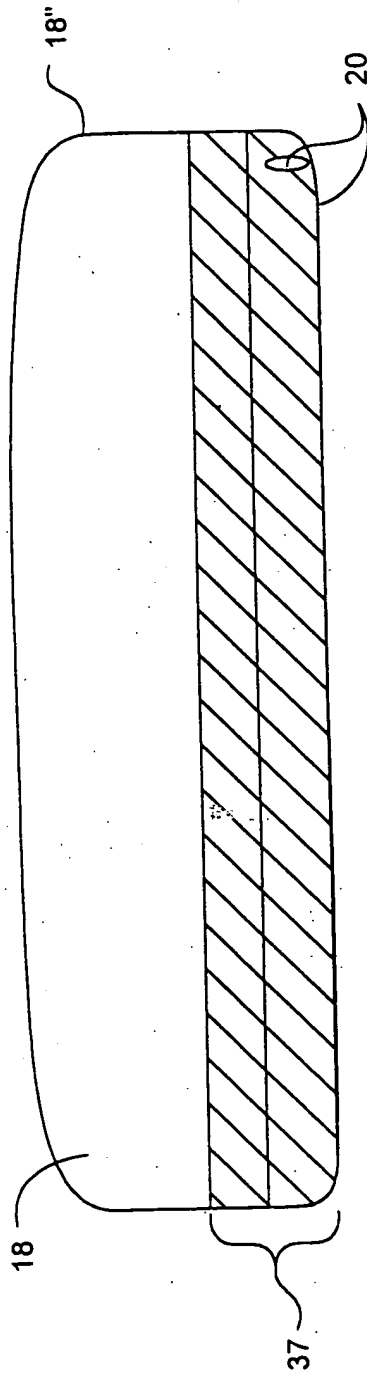


FIG. 20A

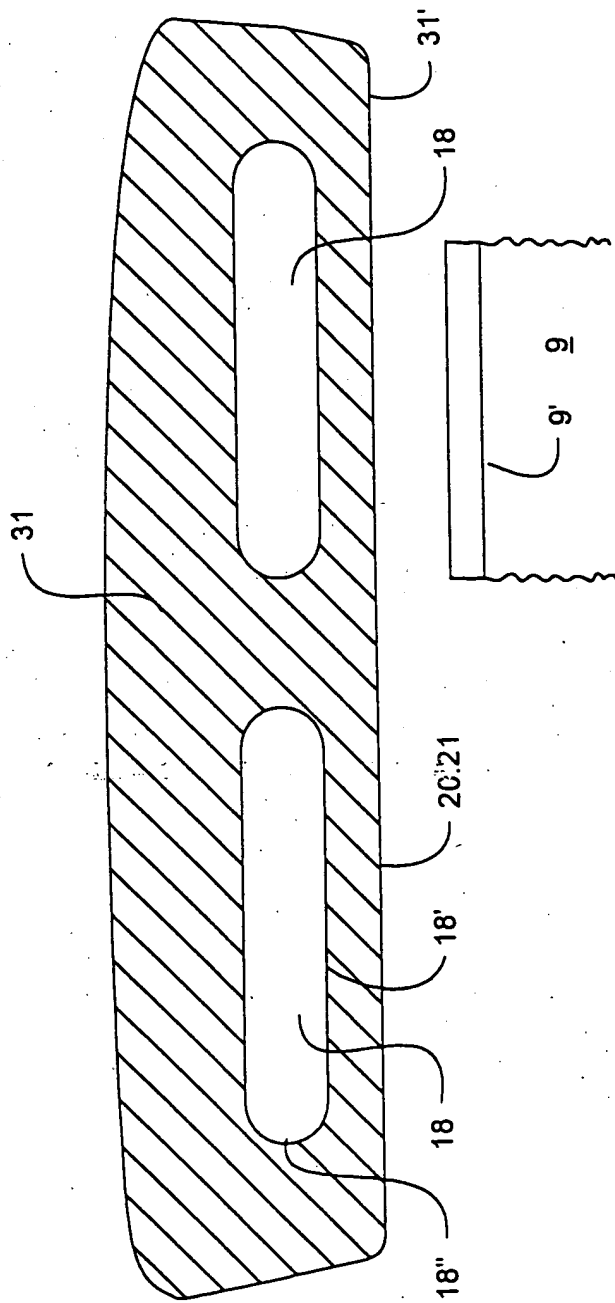


FIG. 20B

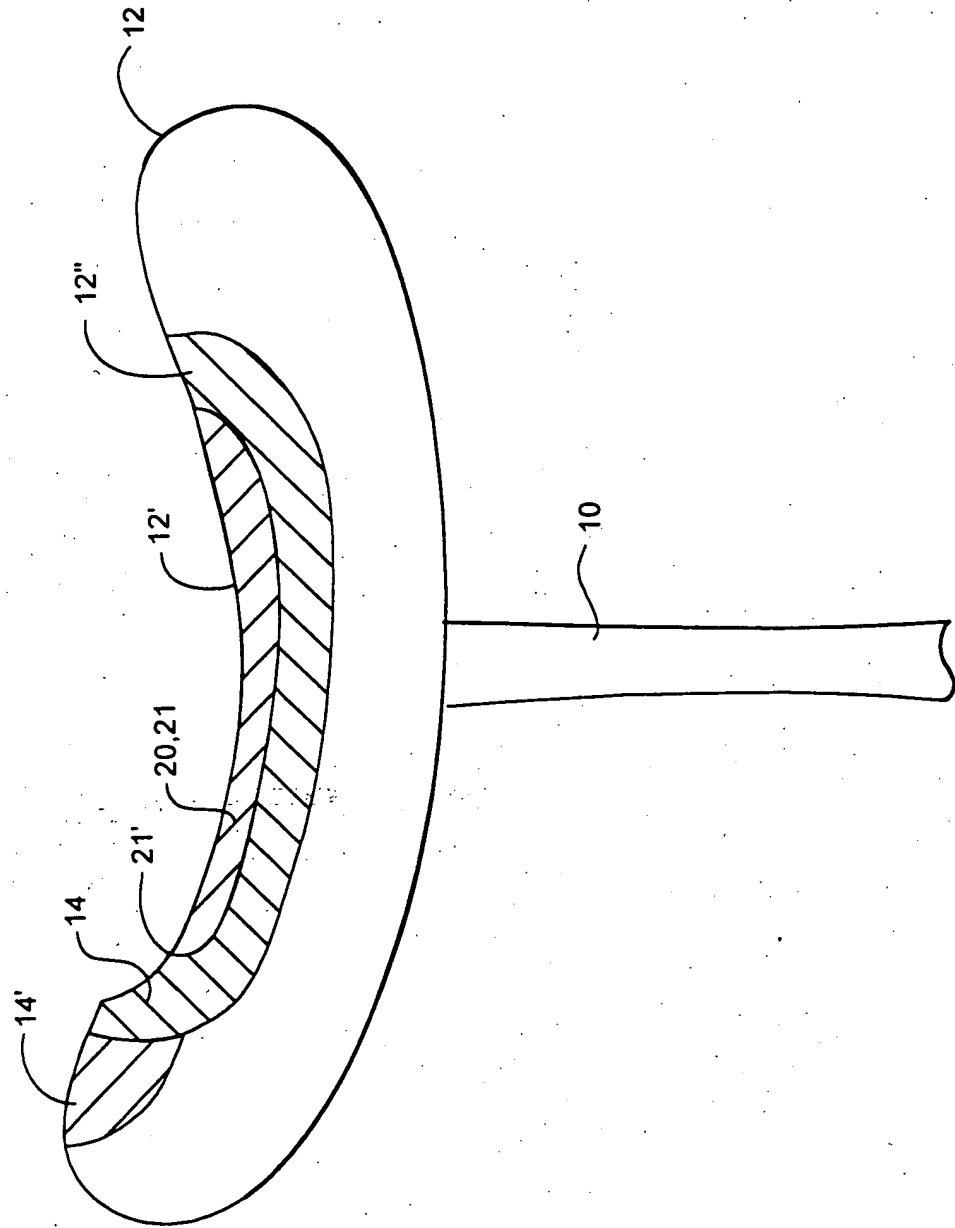


FIG. 21

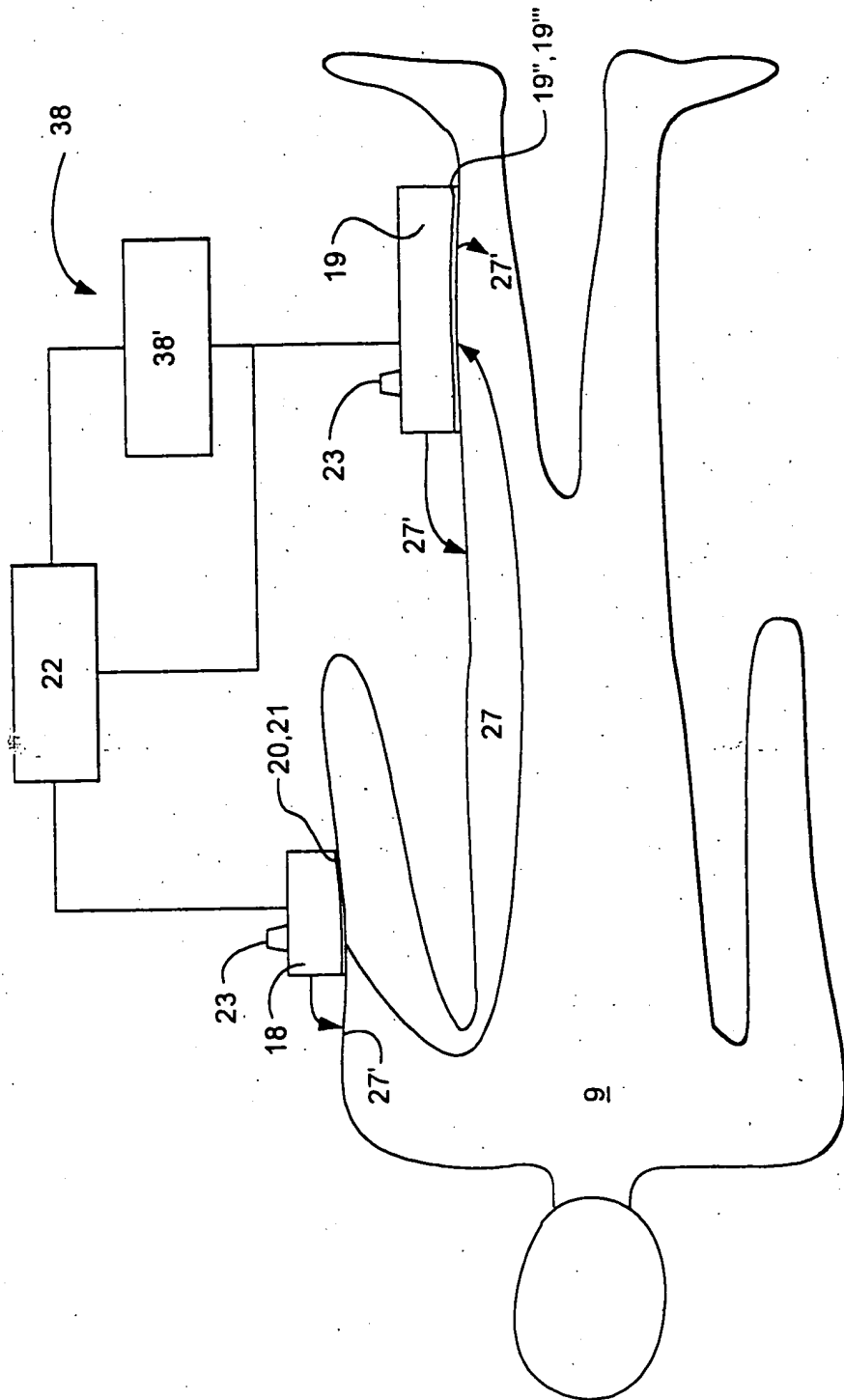


FIG. 22

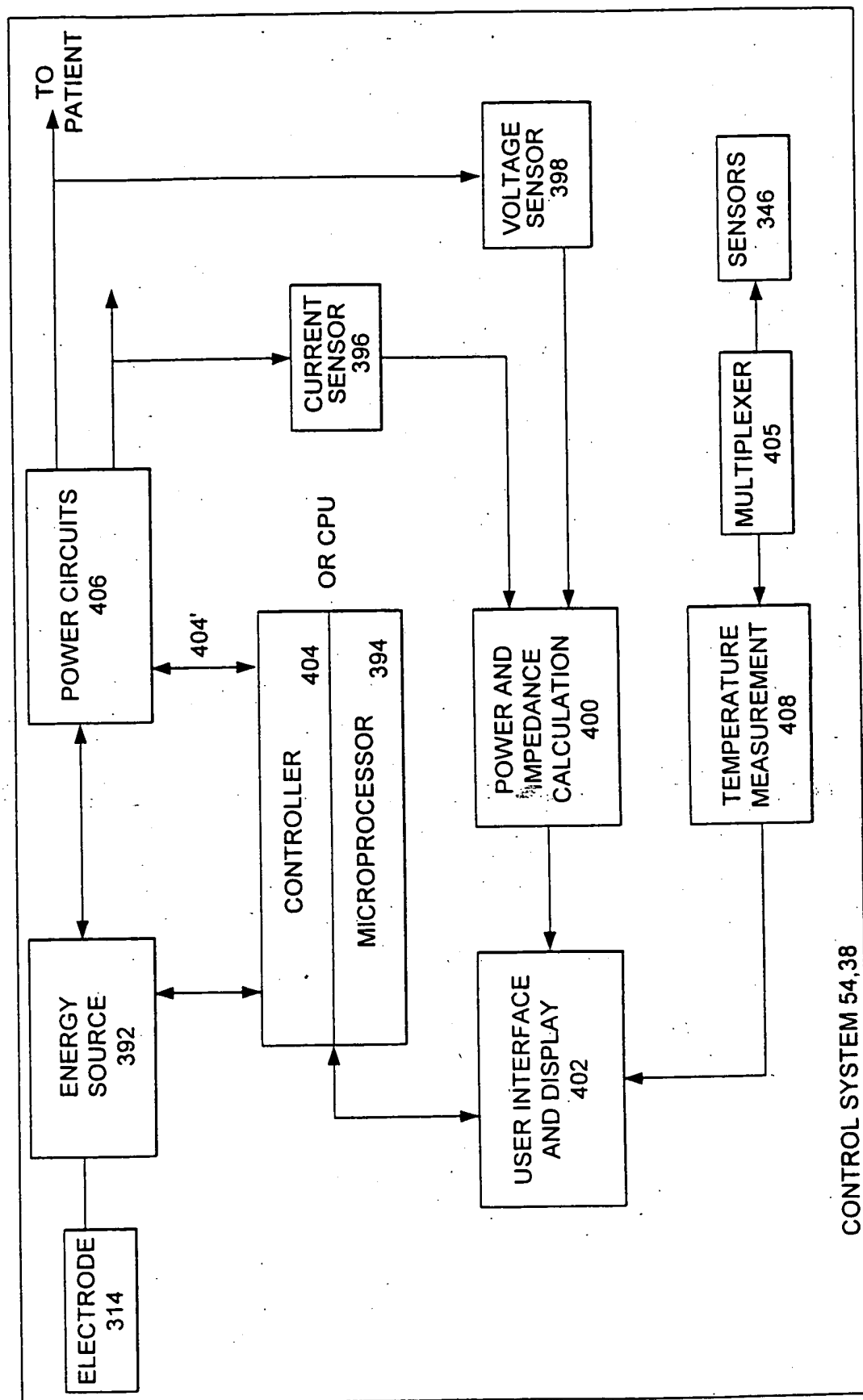


FIG. 23

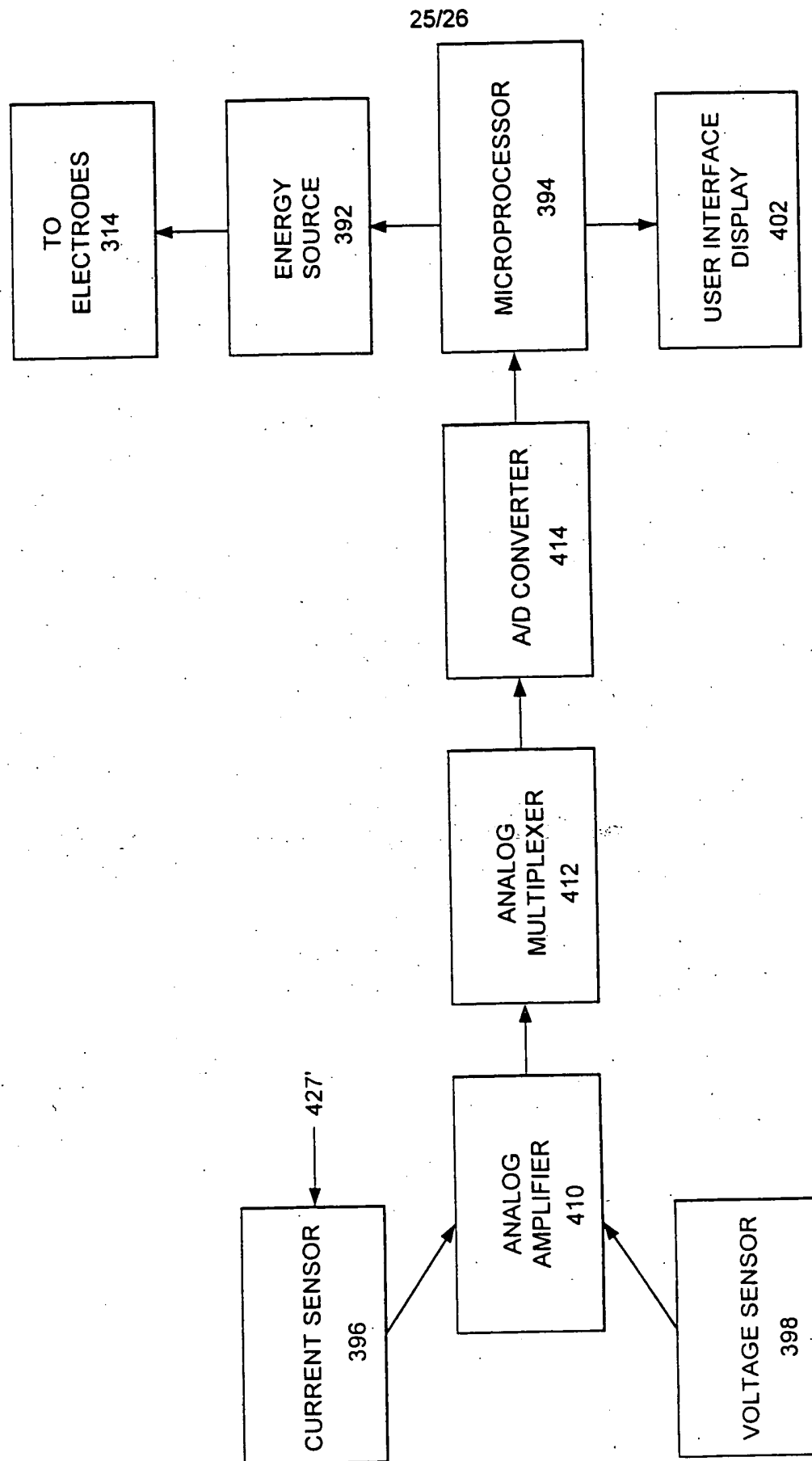


FIG. 24

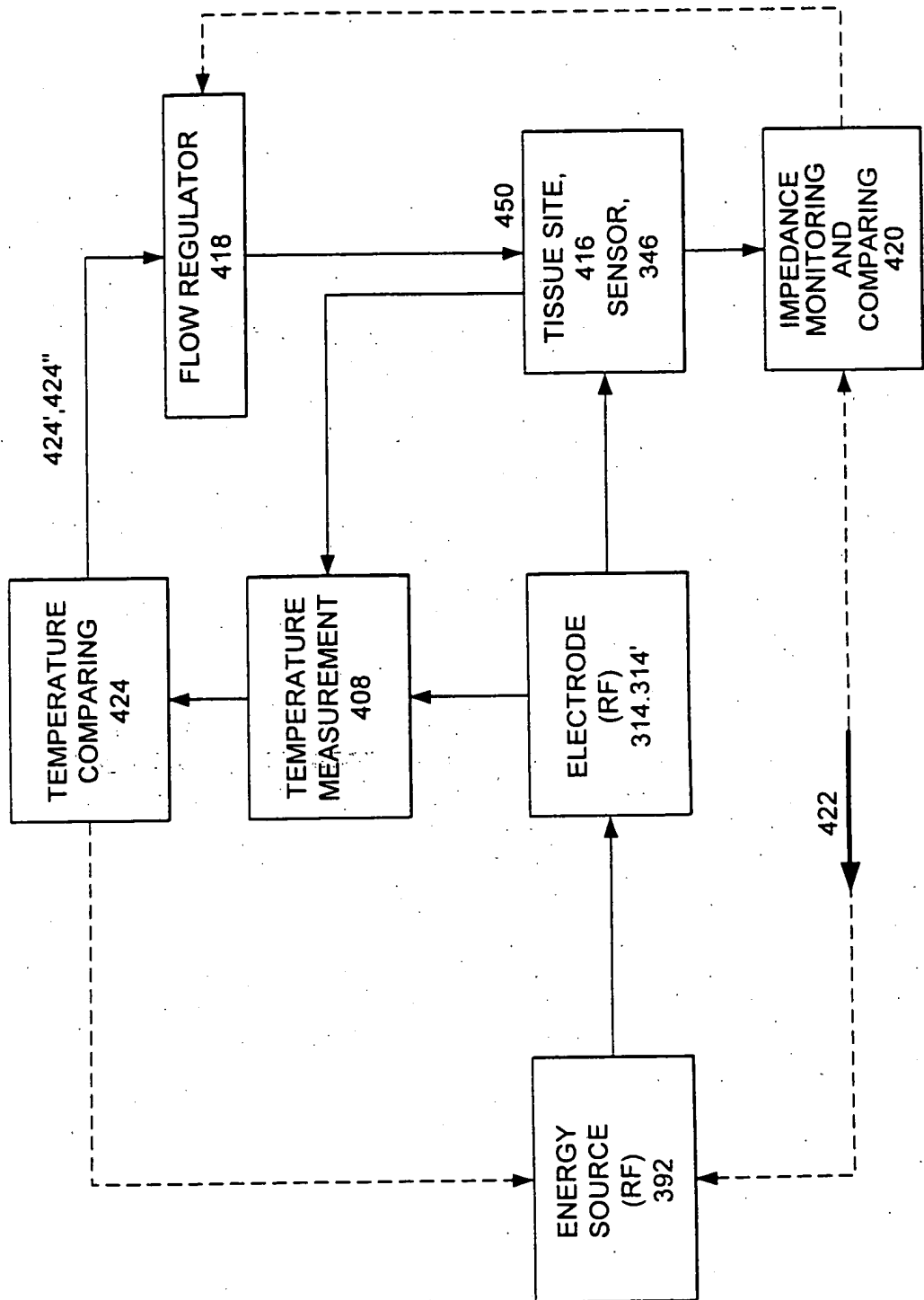


FIG. 25